D21CC80UNVPW-C

2100mA Programmable LED Driver

- ➢ 120-277V Input Voltage
- ➢ Class 2, 80W Constant Current Output with 0-10V dimming
- ➢ Full featured programmability with Wireless Programming

Performance

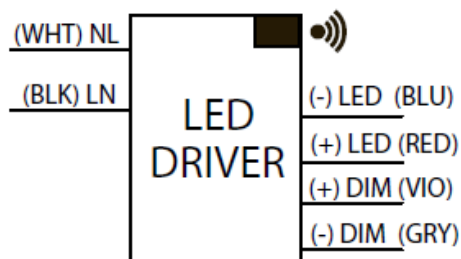| Performance	
Input Voltage	120 ~ 277 Vac
Input Current Max	0.77 / 120V 0.33 / 277V
Input Power Max	93W
Input Frequency	50 - 60 (Hz)
Power Factor	> 0.95 @ max load
THD max	< 20 % @ max load
Output Voltage (Refer to Power Curve Chart)	16V to 38V @ 2.10 Amps / 16V to 56V @ 1.40 Amps
Max. Output Current	2100mA
Min. Dimming Current	5mA
Output Power	80W
Standby Power	< 2.8W @120Vac / < 3.5W @ 277Vac
Line Regulation	±3 %
Load Regulation	±5 %
Output Current Ripple	<10% (Pk-Pk/avg)
Inrush Current* Peak / >10% Duration	120V: 21A / 455uS / 277V: 52A / 358uS

* Source impedance per NEMA 410

Physical

Physical	
Length	14.25 in
Width	1.18 in
Height	1.00 in
Mounting Length	13.75 in
Weight (lbs)	1.0 lbs
Wire Trap / Plug-in Connectors for 16-22 AWG Solid Wire Strip length 0.33in	

Environmental

Environmental	
EMI and RFI	Meets FCC part 15 (Class A) Non-Consumer Limits
Sound Rating	Class A
Operating Temperature	-40°C to 55°C (-40°F to 131°F)
Storage Temperature	-40°C to 85°C (-40°F to 185°F)
Warranty Tc	85°C max for 50k Hr Life
Location Rating	UL Dry & Damp
Transient Protection	IEEE C62.41 2.5kV

Protection
Over Voltage, Under Voltage, Short Circuit, Over Temp
Safety:
UL 8750 & CSA 250.13
UL Class P

Wiring Diagram:

(WHT) NL
(BLK) LN
LED DRIVER
(-) LED (BLU)
(+) LED (RED)
(+) DIM (VIO)
(-) DIM (GRY)

Driver case must be grounded

Ordering Information

Order Number	Description	Qty/Carton
D21CC80UNVPW-C010C	2100mA 80W	10

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| Programmable Features |
|---|
| Output Current |
| Minimum Dimming Level |
| Dim-to-Off |
| Dimming Curve (Linear, Linear Soft Start, Logarithimc) |
| Lumen Maintenance |

*Refer to application notes EVD10 and EVD11 at www.unvlt.com for additional information on programmable features.

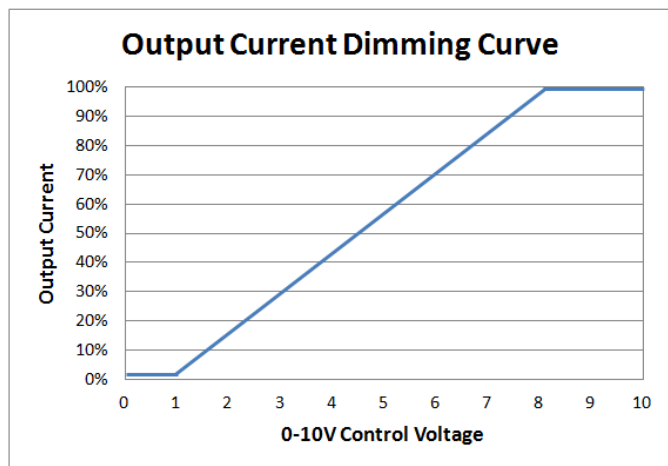| Programming System	
Software	EVERset Programming Software
Hardware	LDPC000A Configuration Tool
Driver Interface	Wireless via RFID

Driver Operating Range:
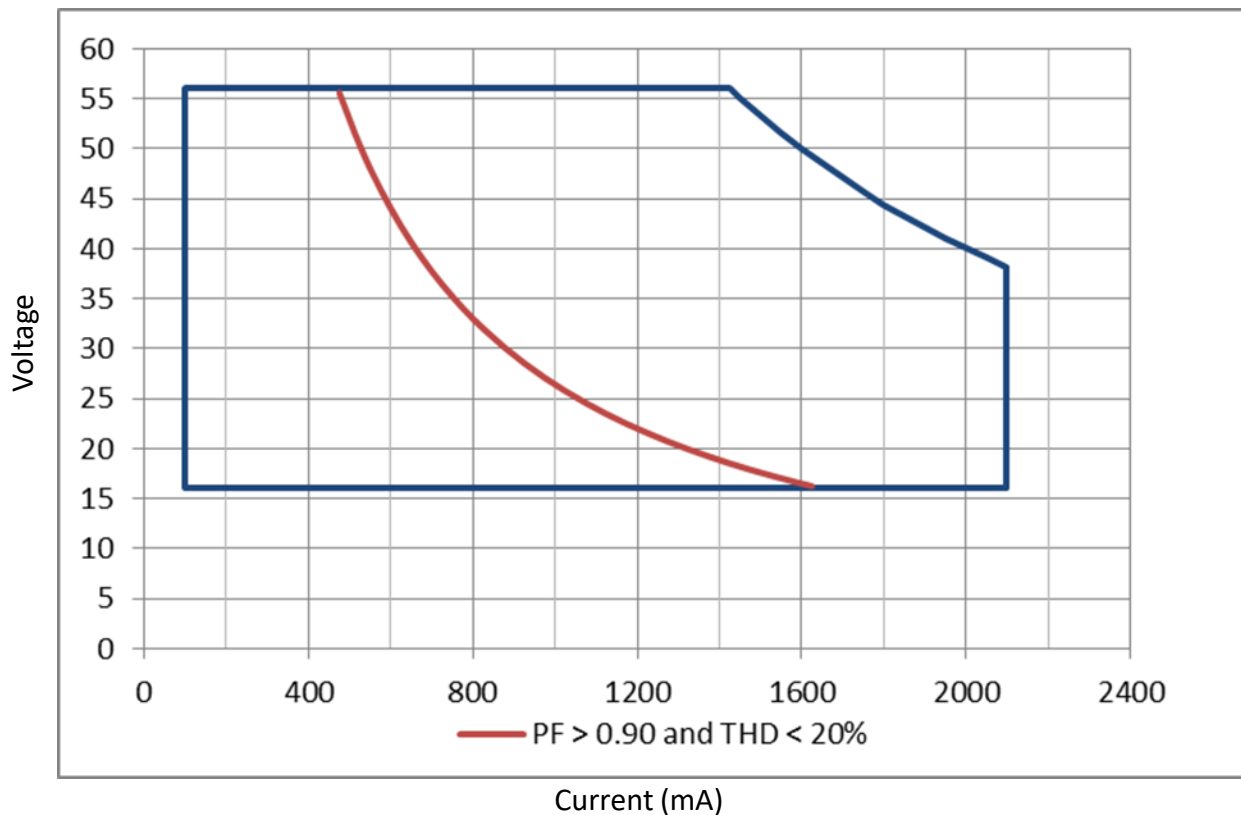
Current (mA)

PF > 0.90 and THD < 20%

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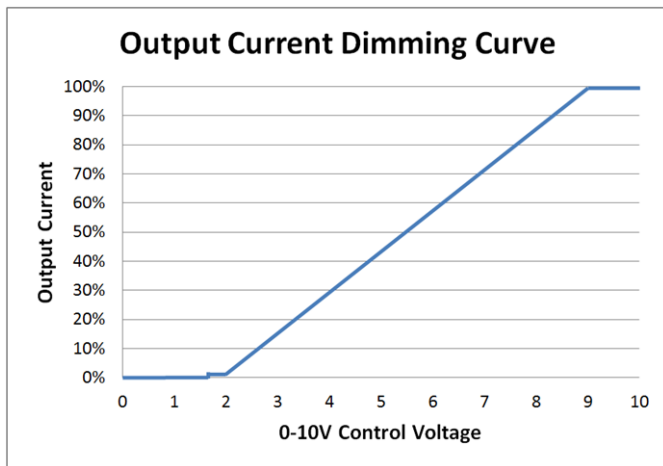
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0-10V Dimming

Linear Dimming to 1%

Linear Dimming w/ Dim-to-Off

* Driver ships with Dim-to-Off disabled. Dim-to-Off must be enabled through the EVERset programming software.

0-10V Analog Dimming Interface
• Analog 0 to 10 Vdc Voltage Control
• Use Violet (+) & Gray (-) for connection to 0-10 Vdc.
• 10V = maximum output
• 0V = dim-to-off or programmed minimum dimming level
• 0-10V interface can be wired as Class 1 or Class 2 Circuit.
• Driver will source a maximum of 165uA for control needs.
• Controller must sink current from the 0-10V control leads.

Programmable Dimming Features		
Feature	Range	Factory Default
Maximum Output Current	100 - 2100mA	default = 2100mA
Minimum Dimming Level	5 - 1050mA	default = 21mA
Dimming Curve	(Linear, Linear Soft Start, Logarithmic w/ factor 1 to 7)	default = Linear
Dimming Control Voltage Range		
Max Bright Control Voltage	7 - 9Vdc	default = 8Vdc
Min Dim Level Control Voltage	1 - 3Vdc	default = 1Vdc
Dim-to-Off	0.1 - 1.7Vdc	default = 0Vdc (disabled)

* Refer to application note EVD10 at www.unvlt.com for additional information on programmable dimming features.
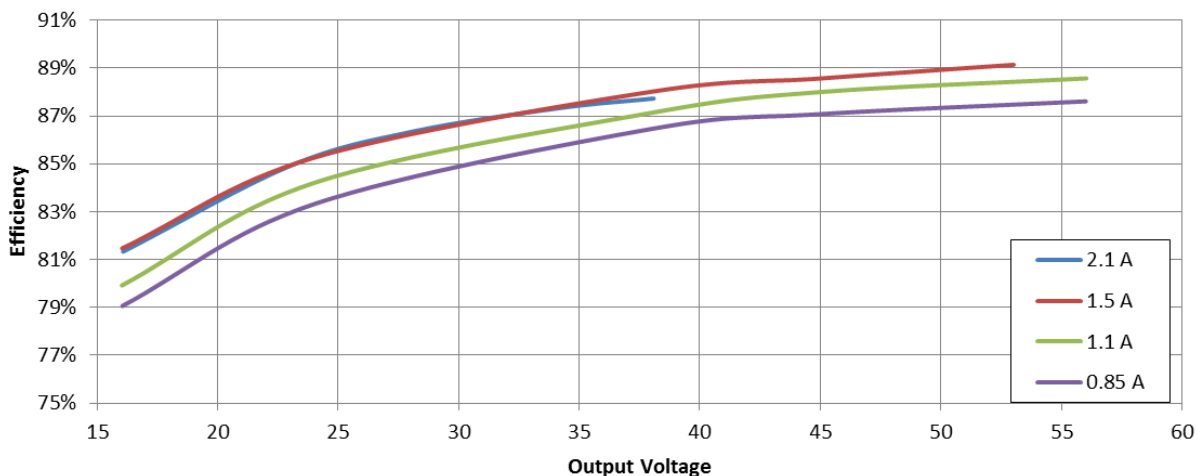
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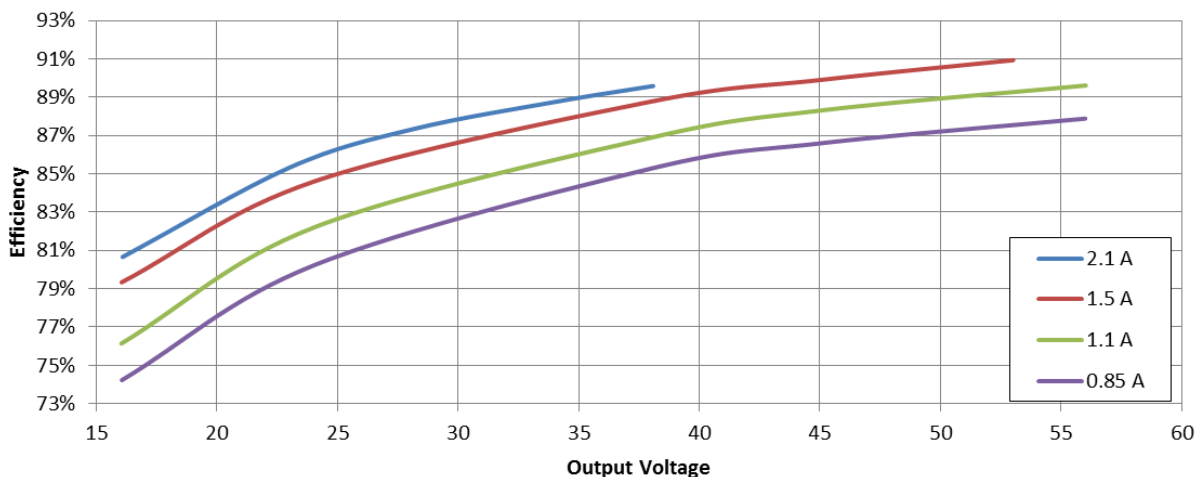
Performance: Efficiency

Typical performance measurements are shown. The charts are to be used as a guideline and not for specification use.

Efficiency Vs. Output Voltage, 120V In

Legend: 2.1 A, 1.5 A, 1.1 A, 0.85 A

Efficiency Vs. Output Voltage, 277V In
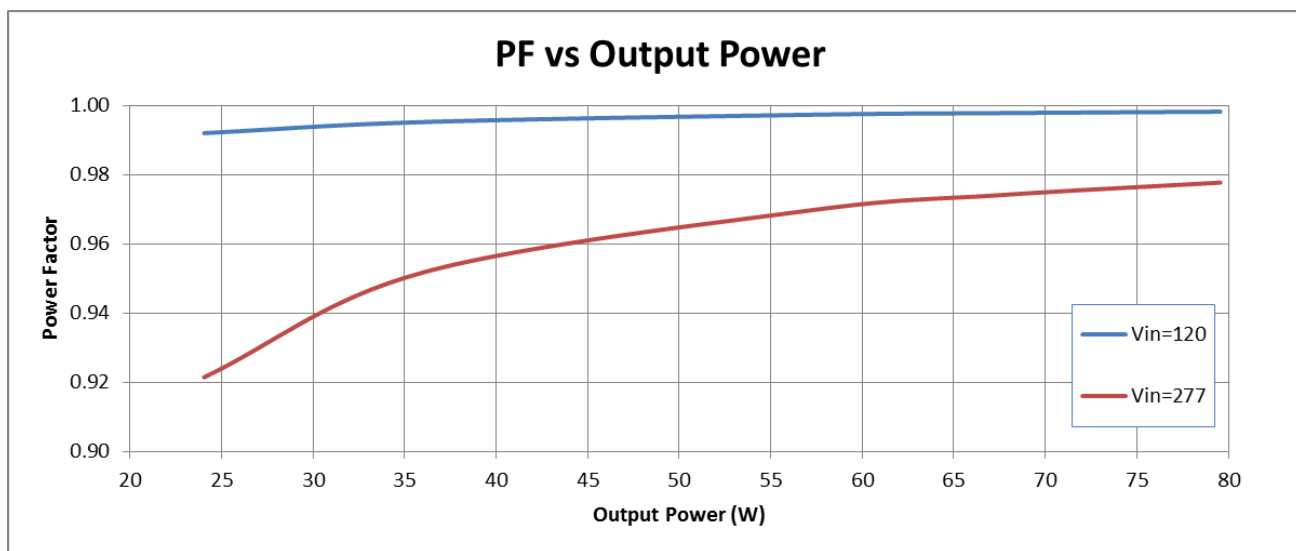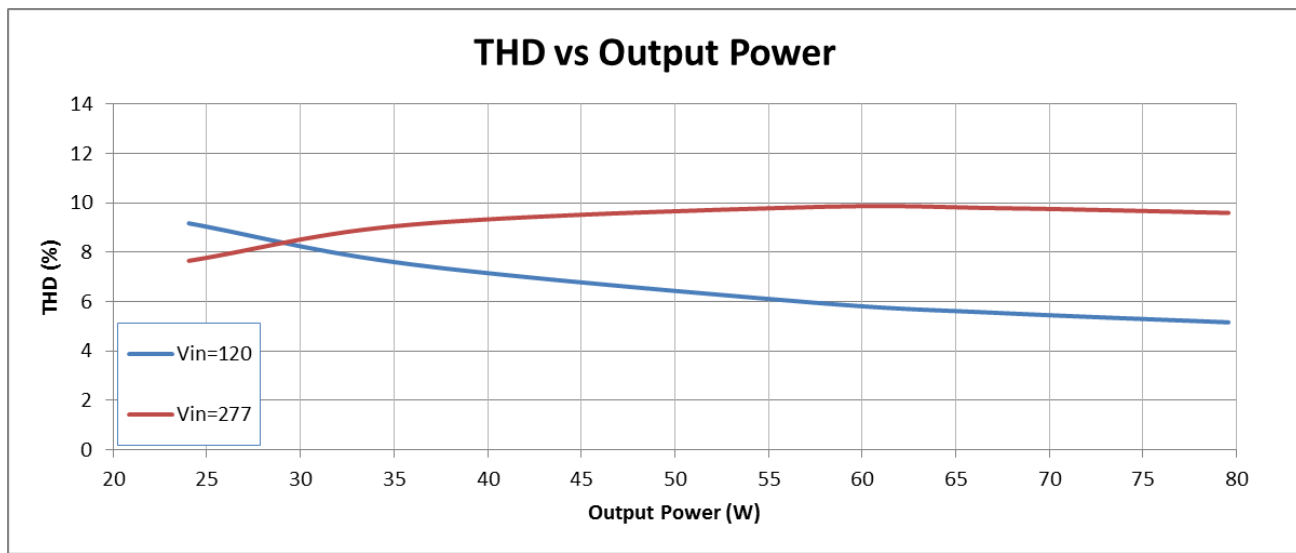
Legend: 2.1 A, 1.5 A, 1.1 A, 0.85 A

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Performance: Total Harmonic Distortion, & Power Factor

Typical performance measurements are shown. The charts are to be used as a guideline and not for specification use.

THD vs Output Power

(Vin=120, Vin=277)

PF vs Output Power

(Vin=120, Vin=277)

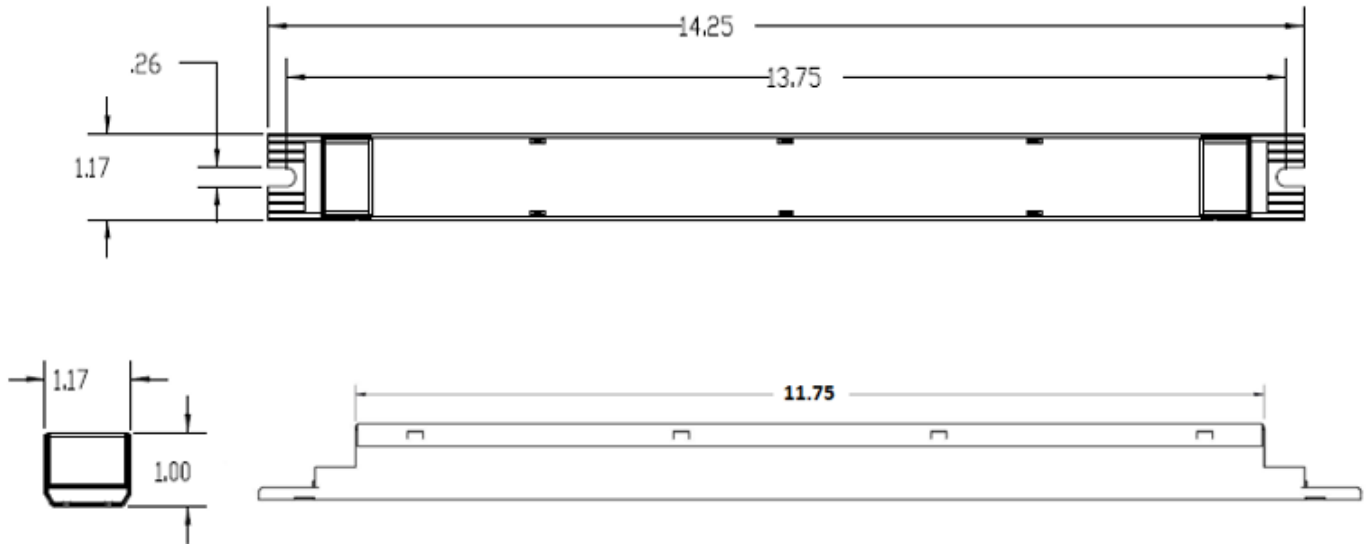Output power based on maximum rated output current and varying load voltages.

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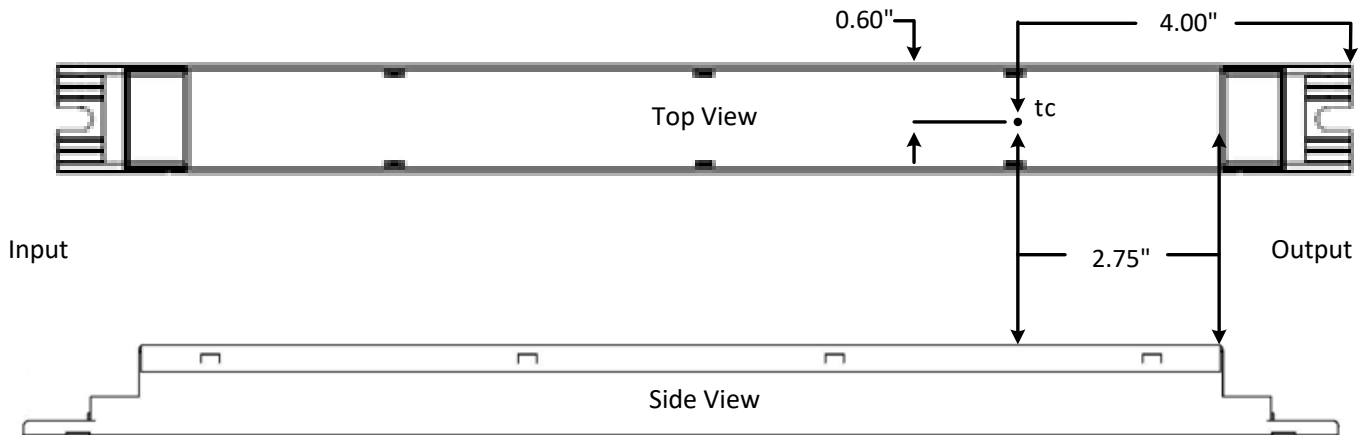Application and operation performance specification information subject to change without notification.

Dimensional Diagram:

Lifetime Tc Location:

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Transient Protection

Transient	Differential Mode (L-N)	Common Mode (L-G, N-G, L&N-G)
IEEE C62.41 100kHz Ring Wave (200A maximum)	> 2.5kV	> 2.5kV

Isolation

Isolation	Input	Output	0-10V	Enclosure
Input	-	2xU + 1kV	2xU + 1kV	2xU + 1kV
Output	2xU + 1kV	-	2xU + 1kV	700V
0-10V	2xU + 1kV	2xU + 1kV	-	2xU + 1kV
Enclosure	2xU + 1kV	700V	2xU + 1kV	-

U = Max Input Voltage

FCC Statement: This device complies with part 15 of the FCC Rules. Operation is subject to the following two conditions: (1) This device may not cause harmful interference, and (2) this device must accept any interference received, including interference that may cause undesired operation.

Warranty:
Universal Lighting Technologies warrants to the purchaser that each power supply will be free from defects in material or workmanship for a period of 5 years from the date of manufacture when properly installed per instructions and under normal operating conditions of use. Call 1-800-225-5278 for technical assistance.

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